DEPARTMENT OF ADMINISTRATION
ARCHITECTURE & ENGINEERING DIVISION

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TO: **ALL ARCHITECTS/ENGINEERS OF RECORD**

FROM: Thomas B. O'Connell, Administrator
Architecture & Engineering Division
1520 East Sixth Avenue, Rm 33
P O Box 200103
Helena MT 59620-0103

DATE: October 14, 2011

RE: REQUEST FOR QUALIFICATIONS

Firms interested in being considered for an interview for the project(s) on the attached pages must follow these procedures:

- Submit two (2) copies of Form 115 for each project, which can be found at **http://architecture.mt.gov/default.mcpx.** Further instructions for filling out the form are on the 115. Information in addition to the 115 is acceptable.
- Form 115 submissions must be received at the A&E office no later than 5:00 p.m. on **Wednesday, November 2, 2011**.
- Please submit originals only; faxes or e-mails of qualifications will not be accepted, nor will submissions received after the deadline.

Firms selected for an interview on the project:

- Will be given the initial information document and interview questions.
- Will be asked to present their credentials before an interview committee. The committee will then submit the names of three (3) qualified firms to the Department of Administration Director, who will appoint one firm for that project in accordance with 18-2-112 MCA.

The state of Montana makes reasonable accommodations for any known disability that may interfere with an applicant's ability to compete in the application and selection process or that may interfere with an applicant's ability to perform the essential duties of the job. In order for the state to make such accommodations, applicants must make known any needed accommodation to the individual project managers or agency contacts listed. Persons using TDD may call the Montana Relay Service at 1-800-253-4091.

CENTRAL PLANT ENERGY MANAGEMENT
Montana State University – Bozeman
A/E #2011-02-05
Project Budget: $100,000

This project provides assessment and scope development services, economics, and phasing planning for central energy plant upgrades at MSU-Bozeman. These upgrades include increasing the reliability and redundancy of the backup propane fuel system and burying the propane fuel storage. The scope of work regarding the propane backup system shall include, but not be limited to:

1. Working with MSU to determine key aspects and goals of propane backup fuel system reliability, security, and redundancy requirements.
2. Evaluate existing heating plant backup fuel system's capability to provide reliable and redundant alternate fuel to the central heating plant and potential generation systems.
3. Provide conceptual design of backup fuel system upgrades required to meet goals.
4. Provide economic analysis of backup fuel systems upgrades including but not limited to detailed cost estimate, life cycle cost analysis, and O&M cost sensitivity analysis.

This project also includes analysis of options to expand central plant cogeneration to enable energy management strategies such as, but not limited to, electrical demand peak shaving, base load cogeneration, and highly modulating summer steam production. The scope of work regarding summer steam production, cogeneration, and peak shavings shall include, but not be limited to:

1. Characterization of MSU's steam production profile and coincident electrical profile.
2. Work with MSU to determine the key aspects and goals of expanded on site generation such as emergency generation, peak shaving, and base loading.
3. Evaluate the potential of electrical peak shaving, base loading and other energy management strategies with on-site cogeneration.
4. Detailed assessment of best available technologies to cost-effectively achieve viable electrical strategies, modulating steam production, and high total-cycle efficiencies.
5. Evaluate options and make a recommendation for further analysis.
6. Provide conceptual design of selected cogeneration system to achieve stated goals.
7. Provide economic analysis of the cogeneration concept including, but not limited to detailed cost estimate, life cycle cost analysis, and O&M cost sensitivity analysis.

Should future projects be funded and authorized as a result of this assessment, the selected consultant may continue into design and construction of implemented projects at the discretion of the A&E Division and MSU.

For further information contact:
Mark Hines, A&E Division Design Phase Project Manager, (406) 444-3331, mhines@mt.gov
Dan Stevenson, MSU FPDC Operations and Maintenance Manager, Engineering & Utilities
(406) 994-5470, daniel.stevenson1@montana.edu

ACADEMIC BUILDING PLANNING
Montana State University – Bozeman
A/E #2011-02-06
Project Budget: $75,000

In response to academic program development and growth, Montana State University intends to complete a programming and schematic design study for a potential new academic building facility to be constructed on the Bozeman campus. The facility is anticipated to be a unique, state-of-the-art learning center for one of MSU's professional college programs that will serve students through high-tech learning environments while also promoting interactive and collaborative educational opportunities and communication between faculty, staff, students, and professionals.

The project will include teaching and lecture spaces of varying capacities, seminar and meeting spaces, interactive learning centers and institutes, group/collaborative study areas, computer centers, public and social gathering areas for large and small groups, reception and display areas, academic offices, departmental and institute offices, administrative, and support spaces.

Upon confirmation of available funding, the University expects to secure Regents' authorization to proceed with finalizing design documents, and to secure construction authority in the 2013 legislative session.

While the program requirements will be confirmed through the programming and concept design process, the building is anticipated to be between 45,000 and 50,000 gross square feet in size. Final program elements will be established based on priority needs and coordinated with the physical and financial constraints associated with construction and maintenance of the facility.

It is expected that the selected consulting firm will assist with program development, prioritization, and establishment of space requirements for the facility through a collaborative effort with the A&E Division, University personnel, a GC/CM firm, and specialty consultants partnered with the selected firm and/or possibly hired independently by MSU. The facility is anticipated to accommodate the following list of spaces:

- Inspiring entrance lobby
- Reception or welcome center
- Maximize opportunity for natural daylight and take advantage of views associated with the campus and Montana landscape based upon the site selected
- State of the art teaching facilities of various occupancies and configurations to support a diversity of teaching pedagogies
- Formal and informal meeting and work areas for students, faculty and professionals
- Institute and clinic space which includes:
- Public Spaces
- Computer and technology centers

- Suite space for various faculty, institute, and student functions
- Building services, storage, and utility areas
- Allow for potential future expansion through additions and/or renovations

The design team will also assist with site selection and development in accordance with the University Long Range Campus Development plan, connections to existing campus utility systems with possible connection to the campus utility tunnel.

The anticipated total project budget is approximately $19,900,000, and is inclusive of all costs, expenses, fees furnishings, equipment, and construction. This budget will be further defined/refined during the planning, concept, and design processes.

It is anticipated that the project will receive Board of Regents' authority to proceed with fully detailed design at the November 2011 meeting. Upon completion of the consultant appointment process, programming and design services would begin in January, 2012 with an anticipated design completion in February, 2013. Legislative authority to construct will be pursued in the 2013 legislative session allowing construction to begin on or about June, 2013, and be completed for a summer of 2015 occupancy. The project will be procured as one general contract under the alternative delivery method utilizing the GC/CM process. The appointed design firm will assist in the GC/CM selection process.

For further information, contact:
Russ Katherman, A&E Division Project Manager, (406) 444-3332, rkatherman@mt.gov
Walt Banziger, MSU Facilities Planning, Design & Construction Director, (406) 994-6326, wbanziger@montana.edu

cc: Mark Hines, A&E Division Design Phase Project Manager
Dan Stevenson, MSU FPDC Operations & Maintenance Manager
Walt Banziger, MSU Facilities Planning, Design & Construction Director